Quality Control

DQA: Date:				- - -										
QA Closed: Date:					WORK ORDER NON-CONFORMANCE / UPDATE Work Order update only									
Work Order:					DISPOSITION									
Part No					Rework Scrap Use-as-is Suspected Unapproved	Machining Small Fa Thermoforming Finishin			Crosstube Small Fab Finishing Composite		Pro Rec/Sto	Engineering Quality Other		
Root		[Desci	ription of work order update		nitial	Act	ion	-	Sign &			
Cause	Date	Step	Qty		or non-conformance	Ch	ief Eng	Descr	iption		Date	Verification	QC Inspector	
Design Doc/Data Equip/Tooling Handling/Pre Waterial Diperator Offset/Setup Process Supplier Training Transport Unapproved														
onapproved 1		1	<u>. </u>	<u> </u>		FAI	ULT CA	TEGORY			L			
Landin	ng Gear				General									
	Bending Centre Not Concentric Cracks Crimp/Kink/Ripple/Wave Cuffs Crushing Heat Treat Inspection Strip in Tube Marks/Chatter Turning Sequence				Bend BOM/Route Broken/Damage/Defect Burrs Contamination Countersink Cut Too Short Drawing Drill Holes Finish		Grain Hardwa Inspect Instruct Misalig Mislabe Misread Off-set	ion Incomplete/Ur ions Incomplete/U gned/off center eled			Outside Dim Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/	tolerance ct ssing Vrong	Pressure/Forced Set-up Temperature/Cure Weld Wrong Stock Pulled Other	
Wave/Twist in Tube					Fit/Function		Out of Sequence							

Work Ord June-12-13 9:1		02875		*102	875*						Page 2
Item ID: Revision ID: Item Name:	D3012-3			Accept	*N900	040 ′	100	* s	etup Start	171.	S1* S2*
Start Date: Required Date: Reference:	6/11/13	Start Qty: 10.00 Req'd Qty: 10.00	*10* *10*		Cust Item I Customer:	D:				IV.	.7/
Approvals:		lan:	Date:	Tooling: _ SPC (Y/N):		ate:		R	tun Start Stop	, "IVII	R1* R2*
Sequence ID/ Work Center I 130 *130* Packaging Packaging	D	Operation Description Identify as per dwg & St	ock Location: STOQ	Set Up/ Run Hours 0.00	Tool ID	Tool#	Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp 3-06-25
140 *140* QC Quality Control		QC21- Final Inspection - Memo	Work Order Release	0.00					13/6 JBO	126	4

DQA: [Date:			- · · · · · · · · · · · · · · · · · · ·									
QA Closed:			Date:			WORK ORDER NON-	-C(ONFO	RMANCE / UPDATE	W	ork Order up	odate only	AEROSPACE	
					-						DEPARTMENT/PROCESS			
Work Orde	er:					, , ,	.				1)4/a4a# (a4] e	
David N		-				Rework			Skid-tube Crosstube	-	Dec	Water Jet	Engineering	
Part N	NO					Scrap Use-as-is			Machining Small Fab	-	1	d. Eng. Coor. re/Packaging	Quality Other	
NCR N	ulo.					Suspected Unapproved		mem	Large Fab Composite	\vdash		Supplier		
WCN	' '					Juspected Ollappioved			Large rab Composite	ъ	1	Supplier		
Root					Desci	ription of work order update		nitial	Action		Sign &			
Cause		Date	Step	Qty		or non-conformance	Ch	ief Eng	Description		Date	Verification	QC Inspector	
Design								<u></u>						
Doc/Data														
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Handling/Pre														
Material												Ē		
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Offset/Setup			ŀ											
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Supplier														
Training														
Transport														
Unapproved														
							FA	ULT CAT	regory					
Landi	ng Gea	r				General				_	,	_	-	
	Ве	nding				Bend		Folio/P	Program		Outside Dim	ensions	Pressure/Forced	
	Ce	ntre No	ot Concer	ntric		BOM/Route		Grain		\perp	Over/Under	tolerance	Set-up	
	Cr	acks				Broken/Damage/Defect		Hardwa			Part Incorred	ct	Temperature/Cure	
	Cri	imp/Kin	ık/Ripple	e/Wave		Burrs	L	Inspect	ion Incomplete/Unqualified	L	Part Lost/Mi	ssing	Weld	
	Cu	ıffs				Contamination	L	Instruct	ions Incomplete/Unclear	L	Part Moved	<u> </u>	Wrong Stock Pulled	
	· Cr	ushing				Countersink	L	•	gned/off center	L	Positioned V	_	7	
	∐Н€	eat Trea	t			Cut Too Short		Mislabe	eled	L	Power Loss/	Surge	Other	
	lins	spection	n Strip in	Tube		Drawing		Misread	t					
	Шм	arks/Ch	atter			Drill Holes		Off-set						
	Tu	rning Se	equence			Finish		Out of (Calibration					
			ist in Tub	oe		Fit/Function		Out of Sequence						

Picklist Print Page 1 June-12-13 9:15:53 AM 102875 Work Order ID: D3012-3 **Start Date:** 6/11/13 Required Date: 6/11/13 Parent Item: Decal **Start Qty: 10.00** Required Qty: 10.00 Parent Item Name: IPP A01.04.06New IssueEC Comments: Unit of Qty on Qty per Kit Total Status Component Item ID/ Qty Replacement Mfg/ Last Date Route Bin Primary Item Name Location Measure Hand Issued Issued Item ID Purch Location Seq ID Qty Item 110 0.0000 D3012-3P No Each 1 10 Purchased

Decal

DQA: Date:				— WORK ORDER NON CONFORMANCE (1122-175									* DART		
QA Closed: Date:						WORK ORDER NON-CONFORMANCE / UPDATE Work Order update only									AEROSPACE
						DISPOSITION AGAINST DEPARTMENT/PROCESS						/PROCESS			
Work Orde	er: _									-	_	•	-		
Part N	No	<u>.</u>				Rework Scrap		Skid-tube Crosstube Machining Small Fab			-				Engineering Quality
NCR I	No					Use-as-is Suspected Unapproved		Thern	rmoforming Finishing Rec/Store/Packaging Large Fab Composite Supplier				Other		
Root					Desci	ription of work order update	l	Initial	Acti	on		Sign &			
Cause		Date	Step	Qty		or non-conformance	Ch	ief Eng	Descri	iption		Date	Verification	า	QC Inspector
Design															
Doc/Data	Ш		i												
Equip/Tooling	Ш														
Handling/Pre	Ш														
Material	Ш				!										
Operator															
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Process	Ш														
Supplier															
Training	Ш														
Transport	Ш														
Unapproved							_								
							FA	ULT CA	TEGORY						
Landi	ng G	ear			·	General		-		_			_		•
	L	Bending				Bend		Folio/F	rogram	<u>]</u>		Outside Dim	ensions		Pressure/Forced
	Щ°	Centre No	ot Conce	ntric		BOM/Route		Grain		1)ver/Under	tolerance		Set-up
	Ш°	Cracks				Broken/Damage/Defect		Hardwa	ire .	<u> </u>	P	art Incorrec	ct .		Temperature/Cure
		Crimp/Kir	nk/Ripple	e/Wave		Burrs	L	Inspect	ion Incomplete/Un	qualified	☐ P	art Lost/Mi	ssing		Weld
		Cuffs				Contamination		Instruct	tions Incomplete/U	nclear	P	art Moved			Wrong Stock Pulled
		Crushing				Countersink		Misalig	ned/off center		L P	ositioned V	Vrong		
		Heat Trea	it			Cut Too Short		Mislabe	eled		P	ower Loss/	Surge		Other
		nspection	n Strip in	Tube		Drawing		Misread	d						
		Marks/Ch	atter			Drill Holes		Off-set			_				
		Turning S	equence			Finish		Out of	Calibration		_				
	\Box	Mave/Tw	ist in Tuk	26		1 Fit/Function		Out of	Seguence						





DESIG	P	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	******
CHEC	(ED)	APPROVED.	D3012	V. A
DATE			TITLE SO	CALE
01.0	3.30		DECAL	1:1
Α		01.03.30	NEW ISSUE	



- POINT A -SWL=300lb/136kg DO NOT USE WITH POINT B P/N D3012-1

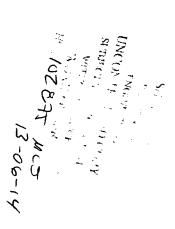
D3012-1

- POINT B -SWL=500lb/227kg DO NOT USE WITH POINT A OR C P/N D3012-3

D3012-3

- POINT C -SWL=300lb/136kg DO NOT USE WITH POINT B P/N D3012-5

D3012-5



MATERIAL: WHITE LETTERS ON BLACK ADHESIVE BACK

MANUFACTURED FROM 3M 7 MIL MASKING FILM #8522CP

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Studio de Lettrage 210 Main Street W Hawkesbury, Ontario K6A 2H6

INVOICE

Invoice No.:

20311

Date:

06/21/2013

Ship Date:

Re: Order No.

Page:

WO10206

Sold to:

Dart Aerospace Ltd

1270 Aberdeen Hawkesbury, Ontario K6A 1K7

Ship to:

Dart Aerospace Ltd

Hawkesbury, Ontario

Business No.:	82500 7651 RT	0001				
Item No	t - Unit	Quantity	Description + + +	- Tax	" " Unit Price " "	Amount.
		1 10 1 30 1 10 10	STICKERS D2137P SET UP CHARGE STICKERS D3671-1P SET UP STICKERS D4166-1P SET UP STICKERS D3012-5P SET UP STICKERS D3012-3P SET UP PO#20161		2.0833 50.0000 2.5000 50.0000 1.6667 50.0000 2.5000 50.0000 2.5000 50.0000	25.00 50.00 25.00 50.00 50.00 50.00 25.00 50.00 25.00 50.00
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Studio de Lettrage I						
Shipped By: Comment:	Tracking Nu	ımber:			Total Amount	452.00
Sold By:		<u>-</u>		:		

****Certificate of Conformity****										
Customer:										
Studio Lettease										
Purchase Order #: Packing Slip #:	<u>Part #:</u> ()	Serial #:								
Description:	Quantity:									
Stickers.	72									
Certification:										
We hereby certify that:										
	The above the listed items were manufactured, repaired and/or inspected in accordance with applicable drawings and/or specifications;									
All work was accomplished in accordance Purchase Order;	with the Dart Aerospac	e								
Results of all inspections, chemical or phys which shows the acceptability of raw mater components are on file and available for ins	ials, parts and/or assen									
Authority:										
Avery										
r · · · · · · · · · · · · · · · · · · ·										
APPROVAL: KAREN STE. UPCIE DATE: Signature ful Ste. Mai										
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Title: PROJECT (ODOC) WOOD		21 2013								

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PRODUCT DATA SHEET



Avery[®] IPM™ 2031

issued: 01/04/2005

Introduction

Avery[®] IPM[™] 2031 is a high quality pressure-sensitive vinyl film, designed for use on wide format inkjet printers. Avery[®] IPM[™] 2031 has excellent printing properties, allowing crisp print quality with bright and vibrant colours. Avery[®] IPM[™] 2031 offers rapid ink drying and a water-resistant material. It combines good adhesion during its life and easy removal afterwards.

Description

Facefilm:

80-micron premium white calendered, topcoated vinvl.

Adhesive:

removable, acrylic based

Backing paper: one side coated kraft paper, 140 g/m²

Features

- Excellent printability
- Vibrant and bright colours
- Crisp print quality
- Spray water resistant wit specific pigmented inks
- Good adhesion, excellent removability
- Warranty on outdoor durability

Recommendations for use

A wide variety of full-colour graphics for indoor - and short/medium term outdoor applications such as posters, murals, displays, exhibition stands, vehicle graphics etc. Avery® IPM™ 2031 is suitable for application to a wide variety of substrates and will remove cleanly for up to 1 year after application.

IPM media should be handled with care as any surface contamination may affect the print quality. Media should be processed in an environment of 15-25°C and 30-70% relative humidity. After drying, the finished prints should be wrapped in polyethylene film and despatched flat or rolled with the printed side facing outwards. To protect prints against water, UV/light and abrasion, overlamination with a clear film is recommended. For specific details of Avery® DOL combinations, refer to "Technical Bulletin 5.3. Recommended combinations of Avery® Overlaminates and Avery® Digital Print Media"

Always test your combination of Avery[®] IPM™ medium, inkjet printer and inks prior to commercial use.

Compatibility

Avery® IPM™ 2031 is compatible with a broad selection of inkjet printers, when printing with pigmented, water based inks. For specific details refer to "Technical Bulletin 5.6 Avery Dennison Inkjet Print Media - Printer compatibility".

Durability:

Avery[®] IPM[™] 2031 is warranted for outdoor use in conjunction with pigmented outdoor inks from HP, Encad and Colorspan. The warranted period varies from type of application and type of overlaminate from 18 months up to 5 years. For full details, see our Avery[®] IPM[™] Outdoor warranty.





PRODUCT CHARACTERISTICS

Averv® IPM™ 2031

Physical properties

Features

Caliper, fácefilm

Gloss

Dimensional stability Adhesion, initial

Adhesion, ultimate Flammability

Accelerating ageing

Shelf life Removability

Not when applied to: Nitro-cellulose paints, ABS, Polystyrene, certain types of PVC

Durability²

FINAT FTM-1, stainless steel

FINAT FTM-1, stainless steel

DIN 53587, 500h exposure

Stored at 22° C/50-55 % RH

Overlaminated with DOL 1000, DOL 1100 with overlaps

Test method¹

ISO 2813, 20°

ISO 534

DIN 30646

Overlaminated without overlaps for static applications only

Without overlaminate and used for static.

Non-abrasive application ONLY

Results

80 µm 1%

0.3 mm. max

180 N/m 260 N/m

Self extinguishing

No negative impact on film

Performance 2 years up to 1 year

Overlaminated with DOL 4300 5 years

3 years

2 years

18 months

Only when printed with ENCAD GO, HP and Colorspan pigmented inks and when properly applied in accordance with our application instructions. Only applicable for vertical exposure.

Temperature range

Features

Application temperature Service temperature

Results

Minimum: +10°C -20°C to +80°C

Information on physical and chemical characteristics is based upon tests we believe to be reliable. The values listed herein are typical values and are not for use in specifications. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of this material to their specific use.

All technical data are subject to change. In case of any ambiguities or differences between the English and foreign versions of these Conditions, the English version shall be controlling.

Warranty

Avery branded materials are manufactured under careful quality control and are warranted to be free from defect in material and workmanship. Any material shown to our satisfaction to be defective at the time of sale will be replaced without charge. Our aggregate liability to the purchaser shall in no circumstances exceed the cost of the defective materials supplied. No salesman, representative or agent is authorised to give any guarantee, warranty, or make any representation contrary to the foregoing.

All Avery branded materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

1) Test methods

More information about our test methods can be found on our website.

The durability is based on middle European exposure conditions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing south; in areas of long high temperature exposure such as southern European countries; in industrially polluted areas or high altitudes, exterior performance will be decreased.





Graphics Division Plindijk 86, P.O. Box 118 2394 ZG Hazerswoude - The Netherlands Tel +31 71 3421500 - Fax +31 71 3421538